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L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2001:45062 CAPLUS

DOCUMENT NUMBER: 134:101066

TITLE: Preparation of C-19-halogen substituted androst-9(11)-enes.

INVENTOR(S): Neef, Guenter; Golde, Roland; Fritzscheier, Karl-Heinrich

PATENT ASSIGNEE(S): Schering A.-G., Germany

SOURCE: Ger. Offen., 12 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19934088	A1	20010118	DE 1999-19934088	19990715
WO 2001005805	A2	20010125	WO 2000-DE2390	20000717
WO 2001005805	A3	20010913		
WO 2001005805	C2	20030123		

V: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: CH, GH, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SF, SJ, CF, CG, CI, CH, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 2000066845 A5 20010205 AU 2000-66845 20000717

EP 1196427 A2 20020417 EP 2000-954359 20000717

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

JP 2003505393 T2 20030212 JP 2001-511463 20000717

PRIORITY APPLN. INFO.: DE 1999-19934088 A 19990715

WO 2000-DE2390 Y 20000717

AB The 17-hydroxy-19-halogen-androsta-4,9(11)-dien-3-one I (X = halo radio labeled halo) were prepd. as radiopharmaceuticals. Thus, 3,3-(2,2-dimethyltrimethylenedioxy)-10.beta.-formylandrosta-9(11)en-5.alpha.-ol was silylated with Me3CSiMe2Cl followed by b NaBH4 redn. iodination, elimination and desilylation and hydrolysis to give 17.beta.-hydroxy-19-iodoandrosta-4,9(11)-3-one (I, X = iodo, II). II was converted to the 17.beta.-hydroxy-6.beta.,19-cycloandrosta-4,9(11)-dien-3-one (III) in 3 steps.

IT 318950-74-2P 318950-75-3P 318950-80-0P  
318950-83-3P 318950-84-4P 318950-85-5P  
318950-86-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of C-19-halogen substituted androst-9(11)-enes)

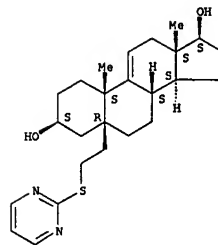
RN 318950-74-2 CAPLUS

CN Androst-9(11)-ene-3,17-diol, 5-[2-(2-pyrimidinylthio)ethyl]-, (3.beta.,5.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN

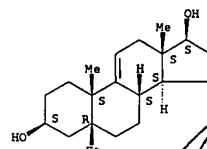
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RN 318950-75-3 CAPLUS

CN Androst-9(11)-ene-3,17-diol, 5-ethyl-, (3.beta.,5.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



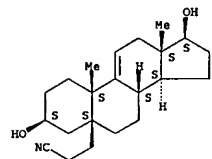
RN 318950-80-0 CAPLUS

CN Androst-9(11)-ene-5-propanenitrile, 3,17-dihydroxy-, (3.beta.,5.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

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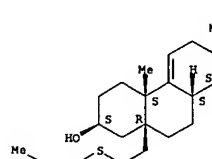
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RN 318950-83-3 CAPLUS

CN Androst-9(11)-ene-3,17-diol, 5-[2-(2-naphthylthio)ethyl]-, (3.beta.,5.beta.,17.beta.)- (9CI) (CA INDEX NAME)

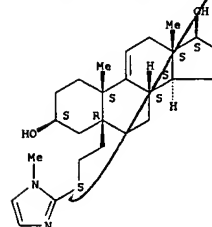
Absolute stereochemistry. Rotation (+).



RN 318950-84-4 CAPLUS

CN Androst-9(11)-ene-3,17-diol, 5-[2-[(1-methyl-1H-imidazol-2-yl)thio]ethyl]-, (3.beta.,5.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



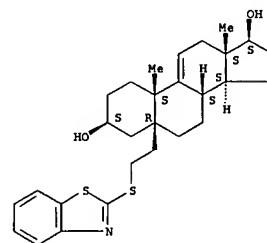
RN 318950-85-5 CAPLUS

CN Androst-9(11)-ene-3,17-diol, 5-[2-(2-benzothiazolylthio)ethyl]-, (3.beta.,5.beta.,17.beta.)- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN

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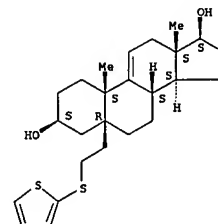
Absolute stereochemistry. Rotation (+).



RN 318950-86-6 CAPLUS

CN Androst-9(11)-ene-3,17-diol, 5-[2-(2-thienylthio)ethyl]-, (3.beta.,5.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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(FILE 'HOME' ENTERED AT 06:54:54 ON 12 NOV 2003)

FILE 'REGISTRY' ENTERED AT 06:55:33 ON 12 NOV 2003

L1 STRUCTURE UPLOADED

L2 0 S L1

L3 7 S L1 FULL

FILE 'CAPLUS' ENTERED AT 06:57:35 ON 12 NOV 2003

L4 1 S L3

FILE 'BEILSTEIN' ENTERED AT 06:59:00 ON 12 NOV 2003

L5 0 S L1 FULL

FILE 'MARPAT' ENTERED AT 06:59:43 ON 12 NOV 2003

L6 0 S L3 FULL